What is claimed is:

1   1.   A method for reorganizing data, comprising:

2   reading each record of a source file;

3   writing each record to a destination file;

4   creating a log file containing selected log records, each log record associated with a

5   change to be made to the destination file;

6   reading each log record of the log file;

7   processing each record of the log file to effect the associated change to the destination

8   file; and

9   replacing the source file with the destination file.

1   2.   A method according to claim 1 wherein the source file is an index file.

1   3.   A method according to claim 1 wherein the source file is a data file.

1   4.   A method according to claim 1 wherein the step of creating a log file is performed in

2   accordance with instructions of a DBMS log routine.

1   5.   A method according to claim 4 wherein the log file contains a subset of all records

2   processed by the DBMS log routine.

1   6.   A method according to claim 4 wherein the log file records are selected based on a

2   program call established by a reorganization utility.

1   7.   A method according to claim 6 wherein the program call is removed prior to termination

2   of the reorganization utility.

1   8.   A method for logging changes by a database management system, comprising:

2   identifying a change to be logged;

3   creating a log record based on the change;

4   determining whether the change affects a reorganization process;

5   storing the log record in a first log file recording selected changes if the change affects

6   the reorganization process; and

7   storing the log record in a second log file recording all changes.

1   9.   A method according to claim 8 wherein the first log file resides in virtual storage.

1   10.   A method according to claim 8 wherein the first log file resides in dataspace.

1   11.   A method according to claim 8 wherein the first log file resides in hiperspace.

1   12.   A method according to claim 8 wherein the first log file resides in DASD.

1   13.   An apparatus for reorganizing data, comprising:

2   means for reading each record of a source file;

3   means for writing each record to a destination file;

4   means for creating a log file containing selected log records, each log record associated

5   with a change to be made to the destination file;

6   means for reading each log record of the log file;

7   means for processing each record of the log file to effect the associated change to the

8   destination file; and

9   means for replacing the source file with the destination file.

1   14.   An apparatus according to claim 13 wherein the source file is an index file.

1   15.   An apparatus according to claim 13 wherein the source file is a data file.

1   16.   An apparatus according to claim 13 wherein the log file is created in accordance with

2   instructions of a DBMS log routine.

1   17.   An apparatus according to claim 16 wherein the log file contains a subset of all records

2   processed by the DBMS log routine.

1   18.   An apparatus according to claim 16 wherein the log file records are selected based on a

2   program call established by a reorganization utility.

1   19.   An apparatus according to claim 18 wherein the program call is removed prior to

2   termination of the reorganization utility.

1   20.   An apparatus for reorganizing data, comprising:

2   a processor;

3   a memory connected to said processor storing a program to control the operation of said

4   processor;

5   the processor operative with the program in the memory to:

6   read each record of a source file;

7   write each record to a destination file;

8   create a log file containing selected log records, each log record associated with a

9   change to be made to the destination file;

10   read each log record of the log file;

11   process each record of the log file to effect the associated change to the

12   destination file; and

13   replace the source file with the destination file.

1   21.   An apparatus according to claim 20 wherein the source file is an index file.

1   22.   An apparatus according to claim 20 wherein the source file is an data file.

1   23.   An apparatus according to claim 20 wherein the processor is further operative with the

2   program in the memory to create the log file in accordance with instructions of a DBMS log

3   routine.

1   24.   An apparatus according to claim 23 wherein the log file contains a subset of all records

2   processed by the DBMS log routine.

1   25.   An apparatus according to claim 20 wherein the processor is further operative with the

2   program in the memory to select the log file records based on a program call established by a

3   reorganization utility.

1   26.   An apparatus according to claim 23 wherein the processor is further operative with the

2   program in the memory to remove the program call prior to termination of the reorganization

3   utility.

1   27.   A computer-readable storage medium encoded with processing instructions for

2   implementing a method for reorganizing data, the processing instructions for directing a

3   computer to perform the steps of:

4   reading each record of a source file;

5   writing each record to a destination file;

6   creating a log file containing selected log records, each log record associated with a

7   change to be made to the destination file;

8   reading each log record of the log file;

9   processing each record of the log file to effect the associated change to the destination

10   file; and

11   replacing the source file with the destination file.